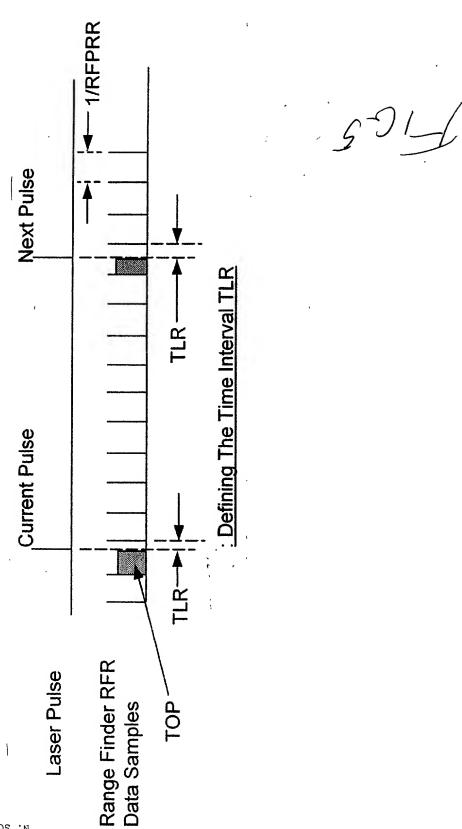


F16.4



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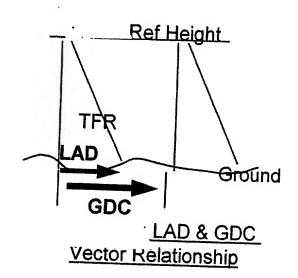
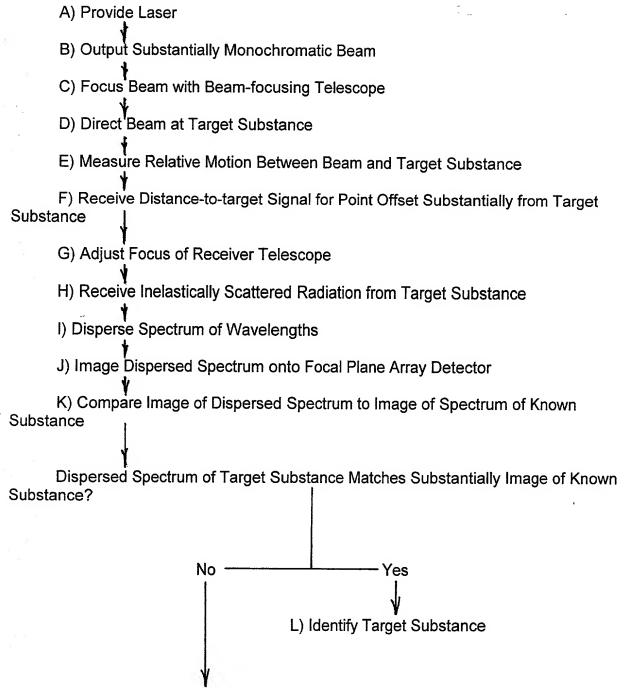


FIG. 6



M) Add Image of Dispersed Spectrum of Target Substance to List of Unidentified Substances

- AA) Disengage On-board Cylinder
- AB) Release On-board Cylinder Retainer
- AC) Remove On-board Cylinder
- AD) Install New On-board Cylinder

Fig. 8

- AAA) Indicate Low Gas Bottle Pressure
- AAB) Lock On-board Valves Shut
- AA) Disengage On-board Cylinder

Fig. 9

- AD) Install New On-board Cylinder
- ADA) Purge Gas Lines by Releasing Gas from Cylinder
- ADB) Vent Gas Through On-board Gas Filter
- ADC) Replenishing Gas of Laser

Fig. 10

- B) Output Substantially Monochromatic Beam
- BA) Setting Pulse Rate of Laser

Fig. 11

- G) Adjust Focus of Receiver Telescope GA) Receive Range-to-target Data Sample GB) Tag Range-to-target Data Sample with Time Sequence GC) Receive Relative Motion Data Sample GD) Calculate Rate of Change of Relative Motion GE Correct Range-to-target Data Sample for Relative Motion GF Correct Range-to-target Data Sample for Rate of Change of Relative Motion GG) Correct Range-to-target Data Sample for Laser Pulse Rate GH) Correct Range-to-target Data Sample for Range-finder Pulse Rate GI) Correct Range-to-target Data Sample for Range-finder Position Relative to Receiver Telescope Line-of-sight
- GJ) Correct Tagged Range-to-target Data Sample for Laser and Rangefinder Waveform De-synchronization Time Offset
- GK) Transform Set of Co-ordinates of Corrected Tagged Range-finder Sample to Receiver Telescope Line-of-sight
- GL) Convert Range-to-target Sample to Equivalent Receiver Telescope Secondary Reflector Position